

ABSTRACT

Methods of stimulating a local immune response in selected cells or tissues employing immunopotentiating oligonucleotide analogs having at least one phosphorothioate internucleotide bond are provided. Methods of enhancing the efficacy of a therapeutic treatment by stimulating a local immune response in selected cells or tissues employing oligonucleotide analogs having at least one phosphorothioate bond are also provided. The oligonucleotide analogs may have antisense efficacy in addition to immunopotentiating activity. Methods of modulating cytokine release in skin cells and immunopotentiators which include oligonucleotide analogs having at least one phosphorothioate bond capable of eliciting a local inflammatory response are also provided.